

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

Applicant: Choi et al.

App. No.: 10/785,248 GPAU: 1756

Filing Date: 24-Feb-2004 Examiner: Christopher G. Young

Dkt. No.: PA132-08D09 Conf. No.: 8897

For: METHOD TO CONTROL THE RELATIVE POSITION BETWEEN A BODY AND
A SUBSTRATE

INFORMATION DISCLOSURE STATEMENT TRANSMITTAL

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Commissioner for Patents
P.O. Box 1450
Alexandria, VA 22313-1450

Sir:

The following information is submitted in compliance with Applicants' duty of disclosure and pursuant to 37 C.F.R. § 1.56, § 1.97 and § 1.98. The undersigned brings the patents, publications, applications or other information identified in the attached:

- Form(s) PTO/SB/08A and/or PTO/SB/08B or PTO/1449
 Other:

to the Examiner's attention in the above-identified application. It is respectfully requested that the cited information be expressly considered during the prosecution of this application, and the references be made of record therein and appear among the "references cited" on any patent to issue therefrom.

FEES DUE

This Information Disclosure Statement is being filed:

- within three months of the filing date of a national application or within three months of the date of entry of the national stage as set forth in § 1.491 in an international application. Therefore, no fee is believed required.

- before the mailing date of a first Office action on the merits or before the mailing date of a first Office action after the filing of a request for continued examination under § 1.114. Therefore, no fee is believed required.
- during the period specified in § 1.97(c). Each item of information contained in this Information Disclosure Statement was first cited in a communication from a foreign patent office in a counterpart foreign application not more than three months prior to the filing of this Information Disclosure Statement.
- during the period specified in § 1.97(c). No item of information contained in this Information Disclosure Statement was cited in a communication from a foreign patent office in a counterpart foreign application, and, to the knowledge of the person signing the certification after making reasonable inquiry, no item of information contained in the information disclosure statement was known to any individual designated in § 1.56(c) more than three months prior to the filing of this information disclosure statement.
- Applicant(s) does not believe that any additional fees are due, but if the Commissioner believes additional fees are due, the Commissioner is hereby authorized to charge any fees which may be required, or credit any overpayment, to Deposit Account Number 502650.

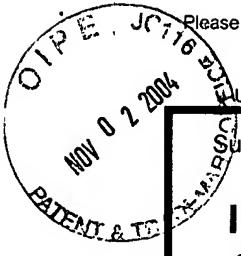
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Signed: Katrina Prati
Typed Name: Katrina Prati
Date: 10-29-04

Respectfully Submitted,



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INFORMATION DISCLOSURE STATEMENT BY APPLICANT

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Sheet

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Complete if Known

Application Number	10/785,248
Filing Date	02/24/2004
First Named Inventor	Choi et al.
Group Art Unit	1756
Examiner Name	Young, Christopher G.
Attorney Docket Number	PA132-08D09

U.S. PATENT DOCUMENTS

Examiner Initials*	Cite No. ¹	U.S. Patent Document		Name of Patentee or Applicant of Cited Document	Date of Publication of Cited Document MM-DD-YYYY	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear
		Number	Kind Code ² (if known)			
A1	4,070,116			Frosch et al.	01-24-1978	
A2	4,600,309			Fay	07-15-1986	
A3	4,848,911			Uchida et al.	07-18-1989	
A4	5,074,667			Miyatake	12-24-1991	
A5	5,148,036			Matsugu et al.	09-15-1992	
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A28	5,362,606			Hartney et al.	11-08-1994	
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A33	5,439,766			Day et al.	08-08-1995	
A34	5,431,777			Austin et al.	07-11-1995	
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		Number	Kind Code ² (if known)			
	A35	5,422,295		Choi et al.	06-06-1995	
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	A68	4,980,316		Huebner	12-25-1990	
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Group Art Unit	1756
Examiner Name	Young, Christopher G.

Attorney Docket Number PA132-08D09

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		Number	Kind Code ² (if known)			
	A69	4,999,280		Hiraoka	03-12-1991	
	A70	5,071,694		Uekita et al.	12-10-1991	
	A71	5,169,494		Hashimoto et al.	12-08-1992	
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	A86	6,150,231		Muller et al.	11-21-2000	
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	A89	6,329,256	B1	Ibok	12-11-2001	
	A90	6,383,928	B1	Eissa	05-07-2002	
	A91	6,387,783	B1	Furukawa et al.	05-14-2002	
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	A99	2003/011368	A1	Mancini et al.	06-19-2003	
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Substitute for form 1449A/PTO				Complete if Known	
				Application Number	10/785,248
				Filing Date	02/24/2004
				First Named Inventor	Choi et al.
				Group Art Unit	1756
				Examiner Name	Young, Christopher G.
(use as many sheets as necessary)				Attorney Docket Number	PA132-08D09
Sheet	4	of	8		

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INFORMATION DISCLOSURE STATEMENT BY APPLICANT <i>(use as many sheets as necessary)</i>				Application Number	10/785,248
				Filing Date	02/24/2004
				First Named Inventor	Choi et al.
				Group Art Unit	1756
				Examiner Name	Young, Christopher G.
Sheet	5	of	8	Attorney Docket Number	PA132-08D09

FOREIGN PATENT DOCUMENTS

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				Application Number	10/785,248
				Filing Date	02/24/2004
				First Named Inventor	Choi et al.
				Group Art Unit	1756
				Examiner Name	Young, Christopher G.
Sheet	6	of	8	Attorney Docket Number	PA132-08D09

OTHER PRIOR ART - NON PATENT LITERATURE DOCUMENTS		
Examiner Initials*	Cite No. ¹	Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume-issue number(s), publisher, city and/or country where published.
	A122	Abstract of Japanese Patent 63-138730
	A123	Abstract of Japanese Patent 55-88332
	A124	Abstract of Japanese Patent 57-7931
	A125	Abstract of Japanese Patent 02-92603.
	A126	Translation of Japanese Patent 02-92603.
	A127	Abstract of Japanese Patent 02-24848.
	A128	Translation of Japanese Patent 02-24848.
	A129	HEIDARI et al., "Nanoimprint Lithography at the 6 in. Wafer Scale," Journal of Vacuum Science Technology, Nov/Dec 2000, pp. 3557-3560, vol. B, no. 18(6)/
	A130	NERAC.COM Retro Search, "Reduction of Dimension of Contact Holes", August 31, 2004
	A131	NERAC.COM Retro Search, "Trim Etching of Features Formed on an Organic Layer", September 2, 2004
	A132	NERAC.COM Retro Search, "Multi-Layer Resists", September 2, 2004

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First Named Inventor

Choi et al.

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Examiner Name

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Examiner Initials*	Cite No. ¹	Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume-issue number(s), publisher, city and/or country where published.	T ²
	A133	HU et al., "Fluorescence Probe Techniques (FPT) for Measuring the Relative Efficiencies of Free-Radical Photoinitiators", s0024-9297(97)01390-9;"Macromolecules" 1998, vol. 31, no.13 , pp. 4107-4113, 1998 American Chemical Society. Published on Web 05/29/1998	
	A134	FEYNMAN, Richard P., "There's Plenty of Room at the Bottom—An Invitation to Enter a New Field of Physics," 12 pp [online][Retrieved 9/23/04 from URI: http://www.zyvex.com/nanotech/feynman.html]	
	A135	CIBA SPECIALTY CHEMICALS BUSINESS LINE COATINGS, "What is UV Curing?", 45 pp [online][Retrieved 9/24/04 from URL: http://www.cibasc.com/image.asp?id=4040]	
	A136	Communication Relating to the Results of the Partial International Search; International Appl. No. PCT/US2002/015551.	
	A137	Papirer et al., "The Grafting of Perfluorinated Silanes onto the Surface of Silica: Characterization by Inverse Gas Chromatography," August 1993, pp238-242, vol. 159, Issue 1.	
	A138	Abstract of Papirer et al., "The Grafting of Perfluorinated Silanes onto the Surface of Silica: Characterization by Inverse Gas Chromatography," August 1993, pp238-242, vol. 159, Issue 1.	
	A139	Hirai et al., "Mold Surface Treatment for Imprint Lithography," August 2001, pp 457-462, vol 14, No. 3.	
	A140	Abstract of Hirai et al., "Mold Surface Treatment for Imprint Lithography," August 2001, pp 457-462, vol 14, No. 3.	
	A141	Sung et al., "Micro/nano-tribological Characteristics of Self-Assembled Monolayer and its Application in Nano-Structure Fabrication," July 2003, pp. 808-818, vol. 255, no. 7.	
	A142	Abstract of Sung et al., "Micro/nano-tribological Characteristics of Self-Assembled Monolayer and its Application in Nano-Structure Fabrication," July 2003, pp. 808-818, vol. 255, no. 7.	
	A143	Roos et al., "Nanoimprint Lithography with a Commercial 4 Inch Bond System for Hot Embossing," October 2001, pp. 427-435, vol. 4343.	

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